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<b>(21) International Application Number:</b> PCT/US96/20403 <b>(22) International Filing Date:</b> 27 December 1996 (27.12.96) <b>(30) Priority Data:</b> 60/009,283 27 December 1995 (27.12.95) US <b>(71) Applicant:</b> THE UAB RESEARCH FOUNDATION [US/US]; The University of Alabama at Birmingham, 1120-G Administration Building, 701 20th Street South, Birmingham, AL 35294-0111 (US). <b>(72) Inventors:</b> SONTHEIMER, Harald, W.; 1704 Russet Woods Lane, Birmingham, AL 35294 (US). ULLRICH, Nicole; 416 Gardens Place, Birmingham, AL 35216 (US). <b>(74) Agent:</b> ADLER, Benjamin, Aaron; 8011 Candle Lane, Houston, TX 77071 (US).		<b>(81) Designated States:</b> AU, CA, JP, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
<b>(54) Title:</b> NOVEL METHOD OF DIAGNOSING AND TREATING GLIOMAS  <b>(57) Abstract</b>  The present invention relates generally to the fields of cell physiology, neurology and neuro-oncology. More specifically, the present invention relates to a novel method of diagnosing and treating gliomas and meningiomas. The present invention describes the expression of a chloride conductance with unique properties that selectively characterizes tumor-derived cells of glial origin. In the present invention, whole-cell patch-clamp techniques were used to characterize the biophysical and pharmacological properties of chloride channels in primary cultures and acutely isolated cells from biopsies of human astrocytomas and established cell lines.		

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